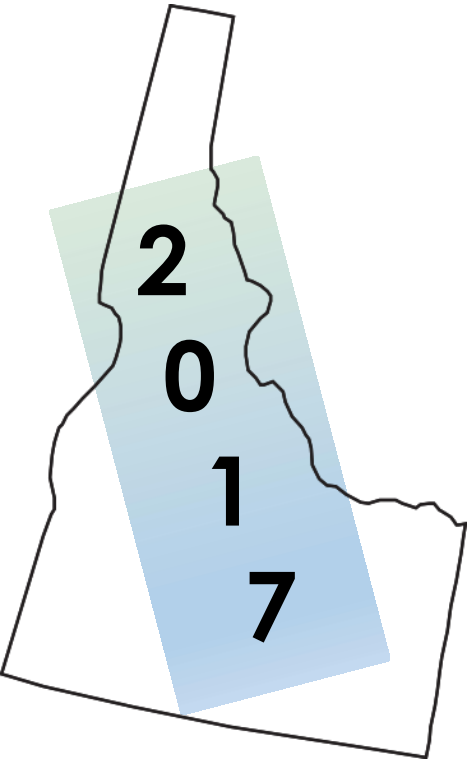
Idaho Geospatial Council

Thursday, April 20, 2017
1:30 – 3:30 pm
West Yellowstone, MT

GIO Update

Bill Farnsworth

Security, Security, Security…

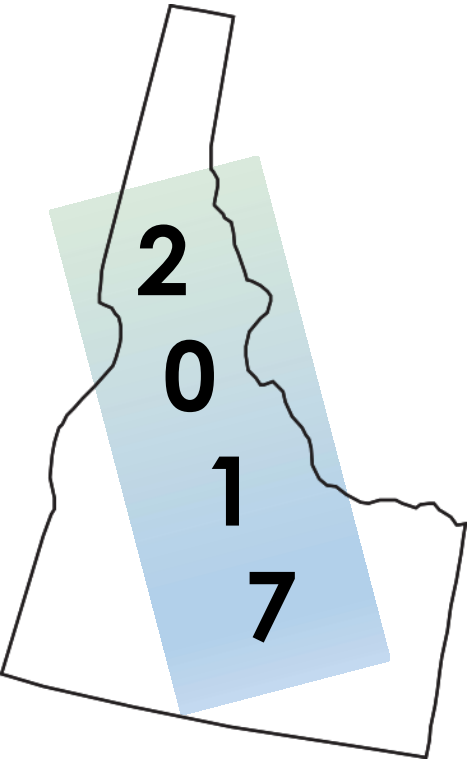


Systems
People
Servers
Data
HTTPS

GIO Update

Bill Farnsworth

Projects:



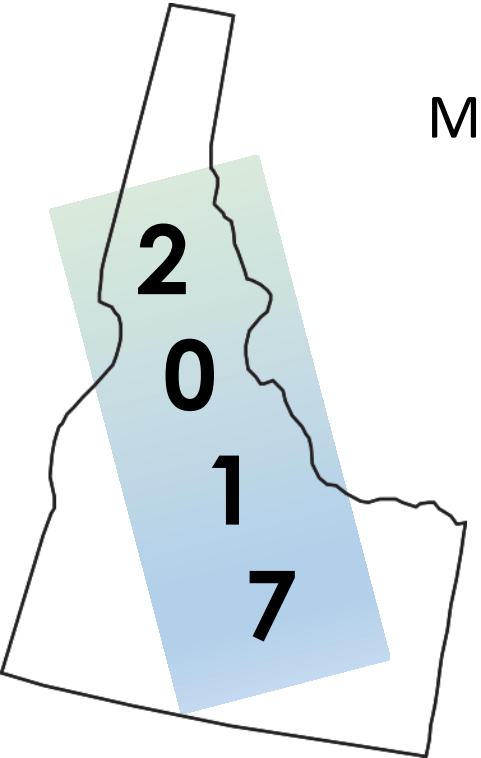
Boise River – Risch's Office
Boulder White Clouds – Risch's Office
Redistricting – Legislature
AGOL – 39 Agencies – 139 Users
Parcels – Ada County Update
Esri Contract – Sole Source
Esri Agency ELA – Several Agencies

GIO Update

Bill Farnsworth

Boise River – Risch's Office

Do you have layers of interest?



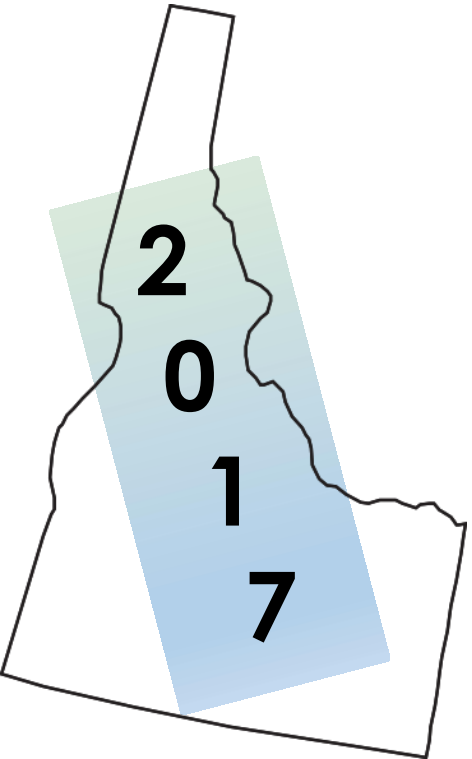
Multiuse:

- Recreation
- Wildlife
- Irrigation
- Statistics
- Other?

GIO Update

Bill Farnsworth

Boulder White Clouds – Risch's Office



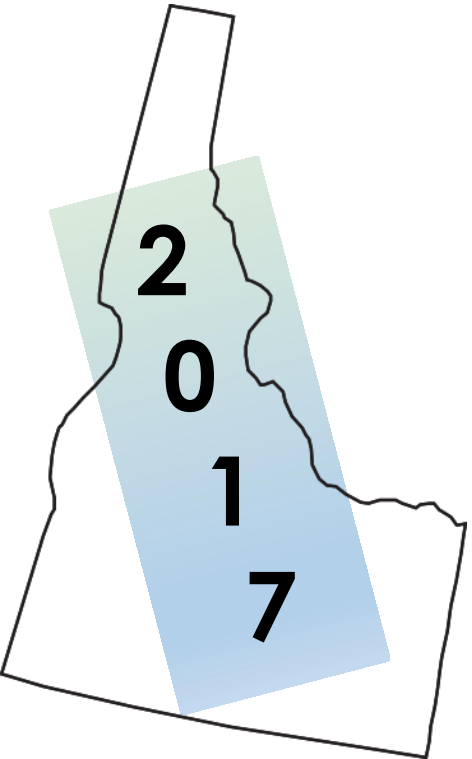
Working on a Story Map to tell the story about the Legislation

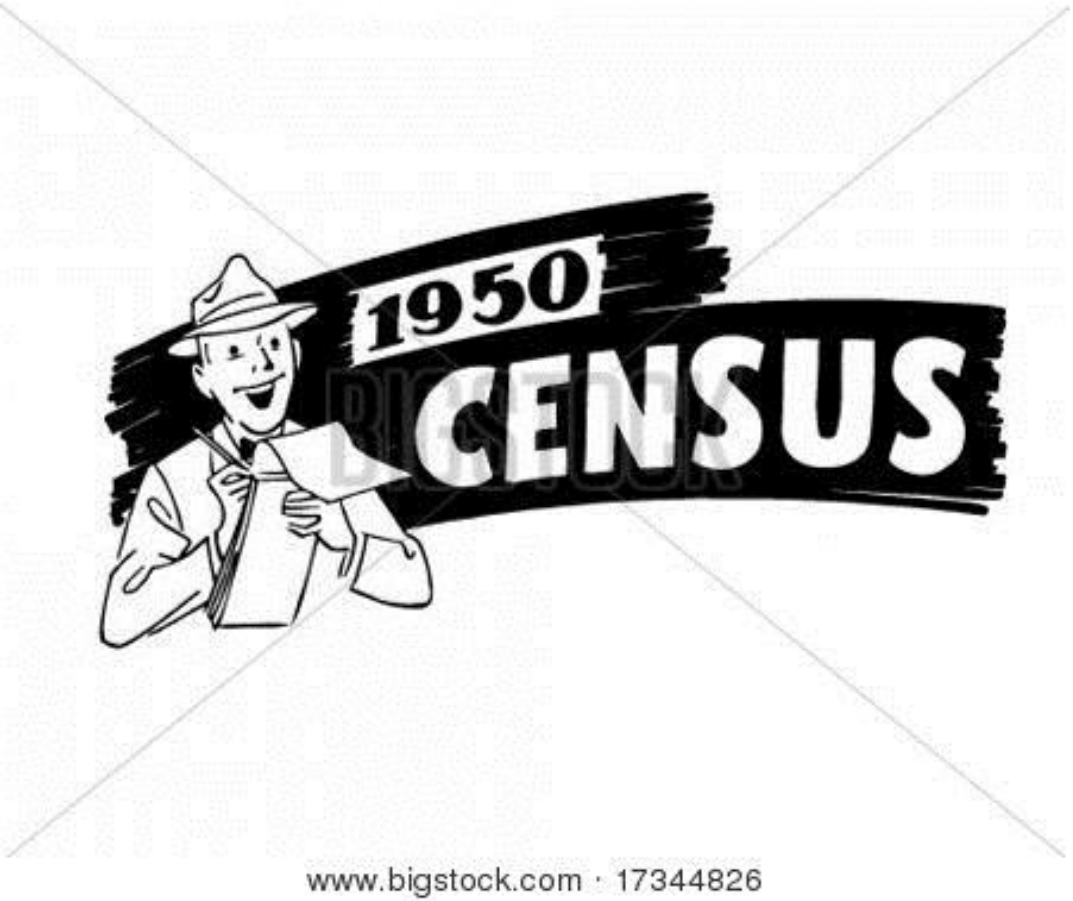
Historic Use
Mixed Use
Wilderness Area

GIO Update

Bill Farnsworth

Census 2020 - Legislature
Redistricting – Future – Legislature

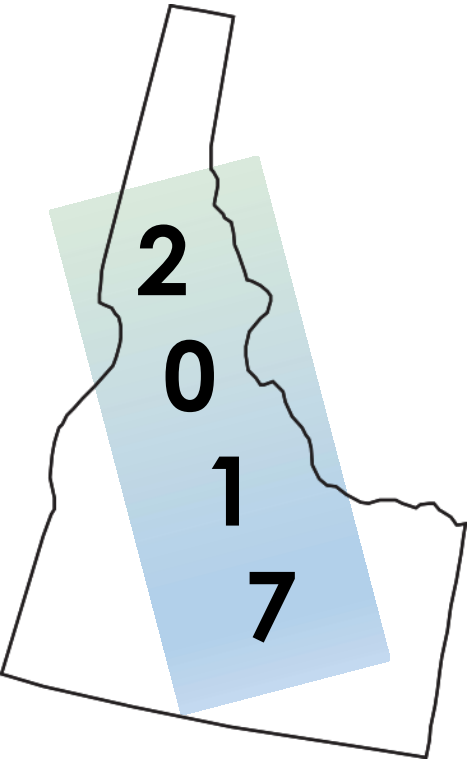




GIO Update

Bill Farnsworth

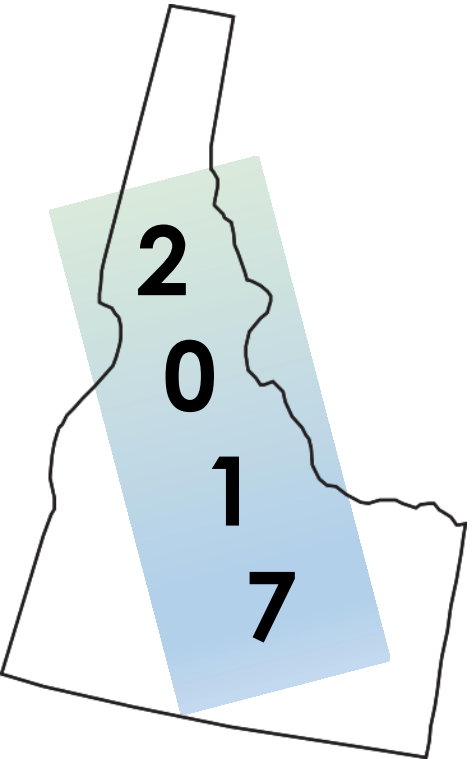
AGOL
– 39 Agencies
– 139 Users



GIO Update

Bill Farnsworth

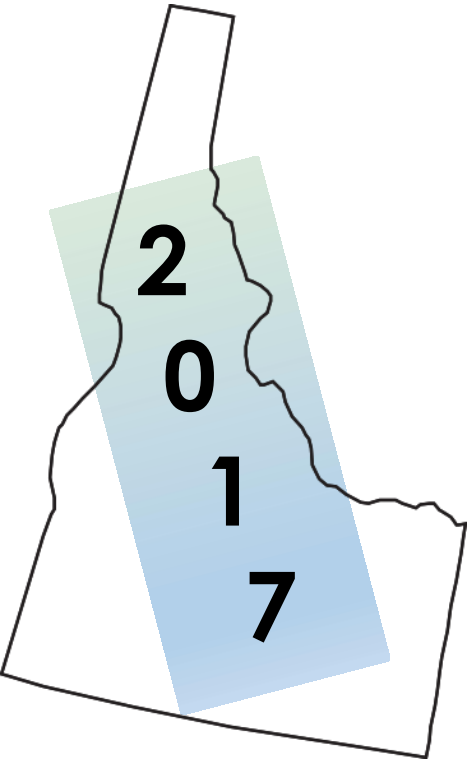
Parcels.Idaho.gov
– Ada County Update



GIO Update

Bill Farnsworth

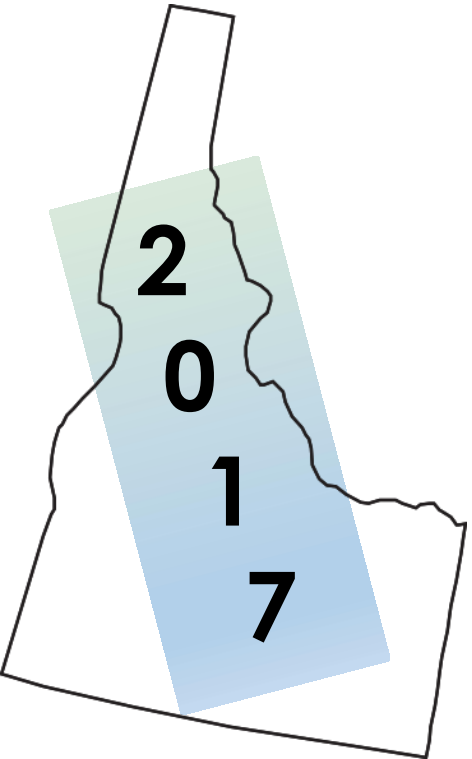
Esri Contract – Sole Source
Esri Agency ELA – Several Agencies

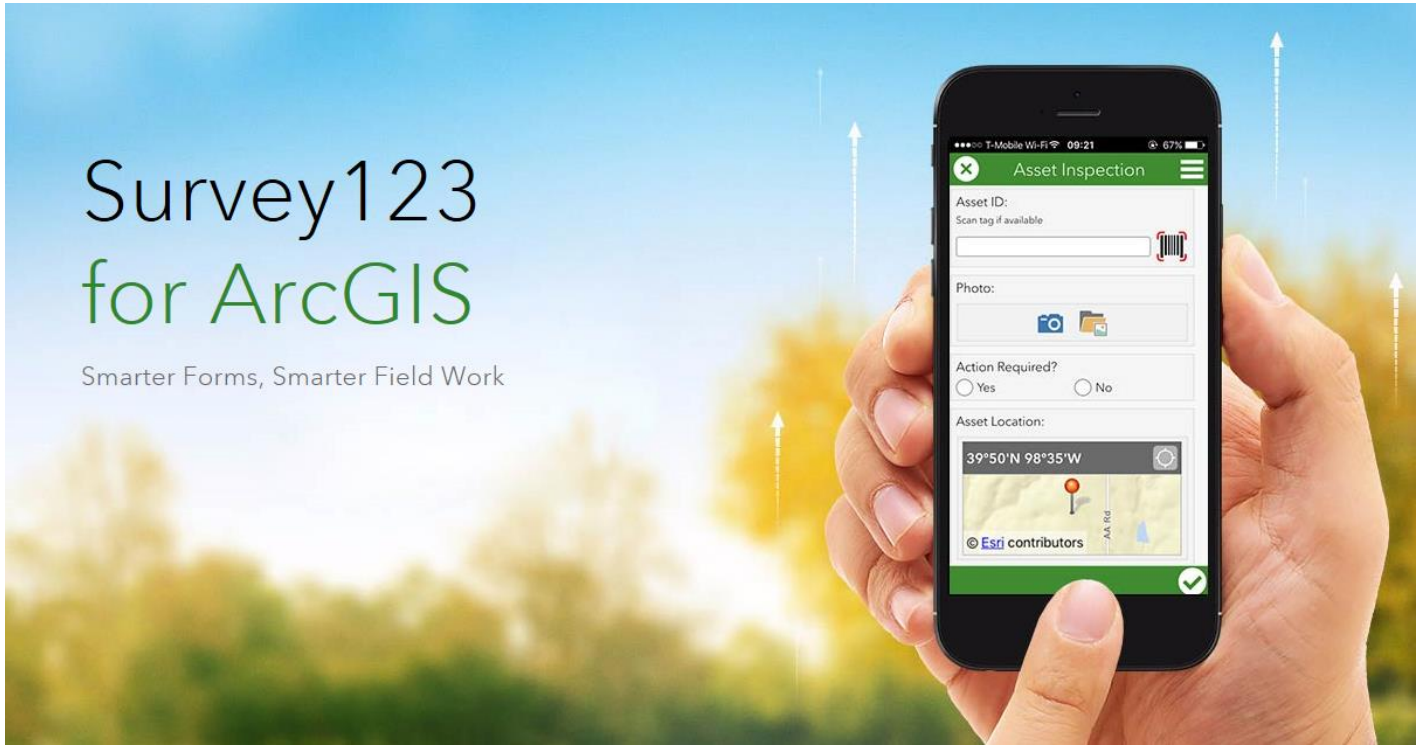


GIO Update

Bill Farnsworth

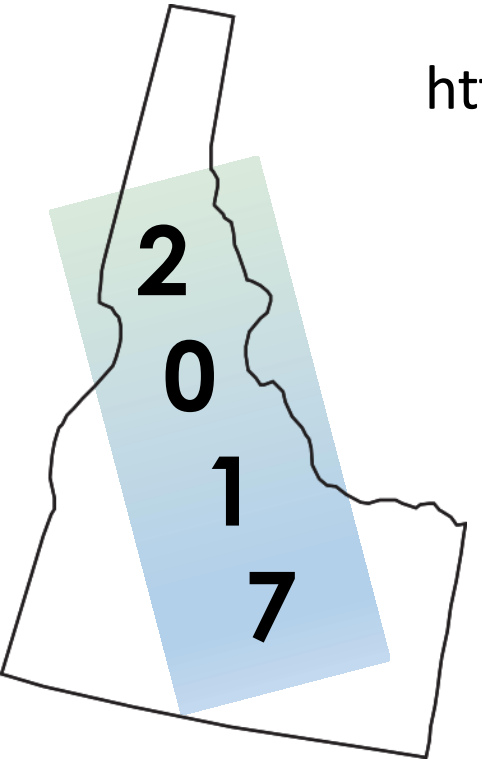
Survey123 – Several Agencies



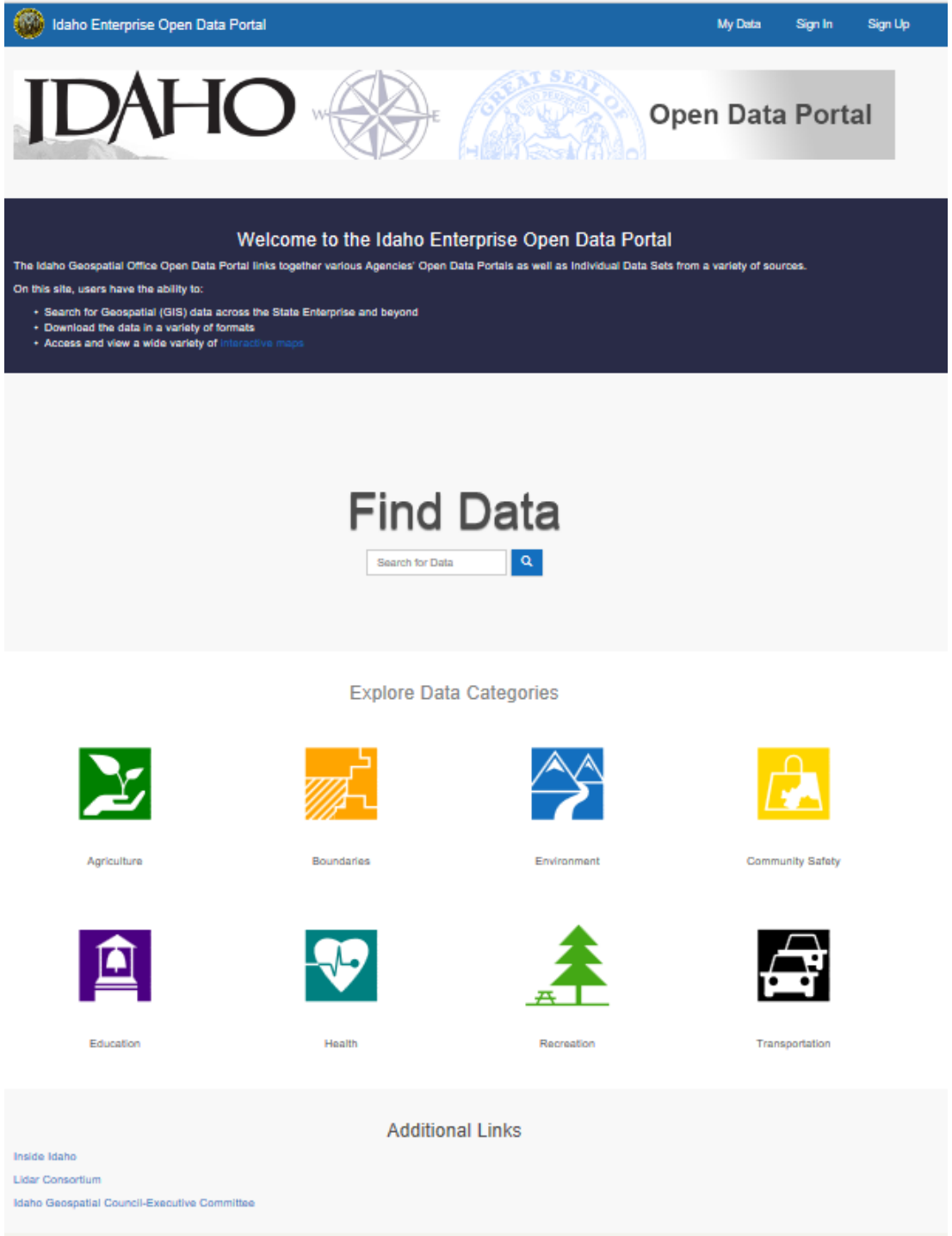


GIS Open Data Portal

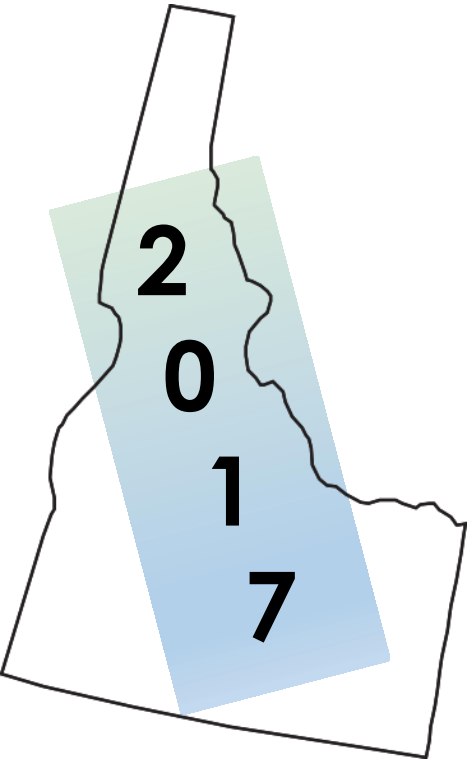
Bill Farnsworth

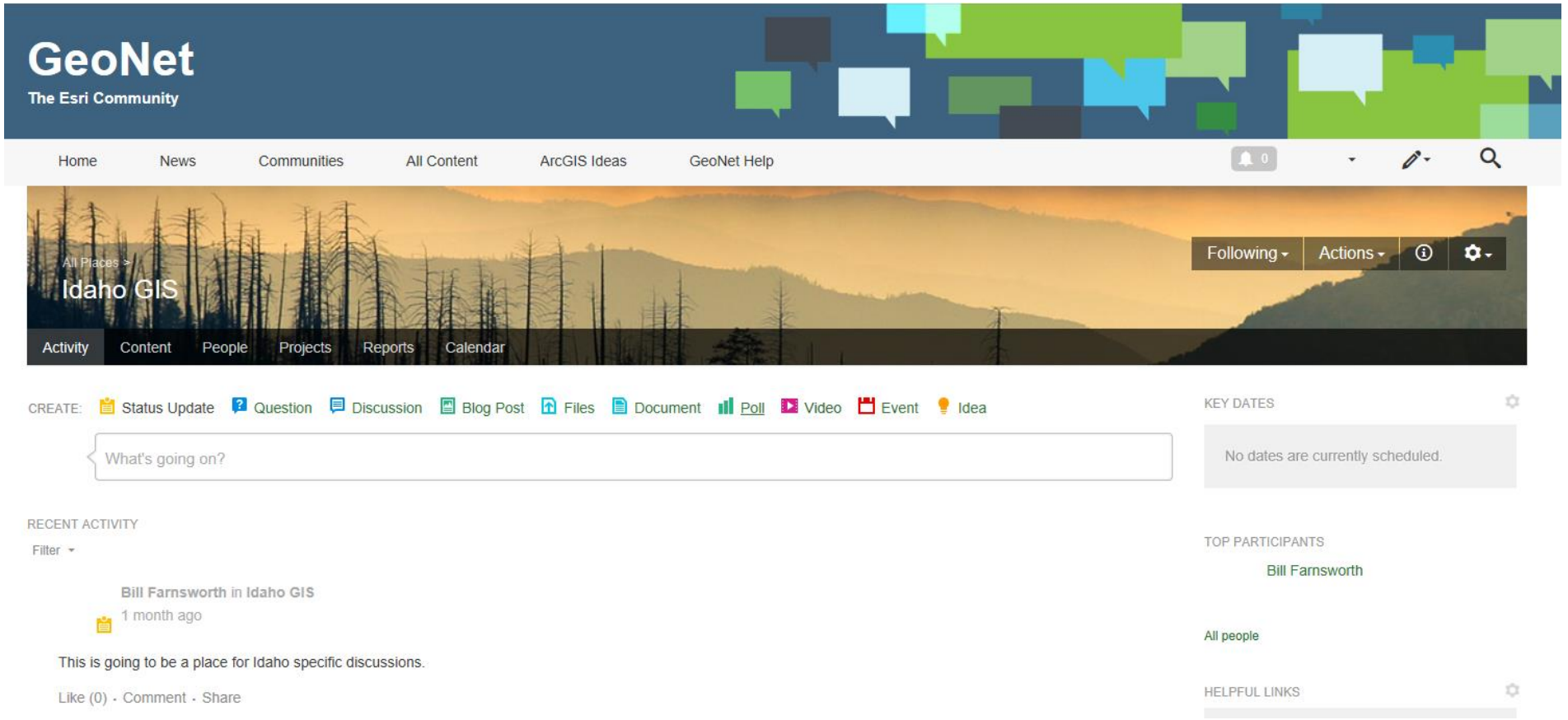


http://data.gis.idaho.gov/



GeoNet
Idaho GIS

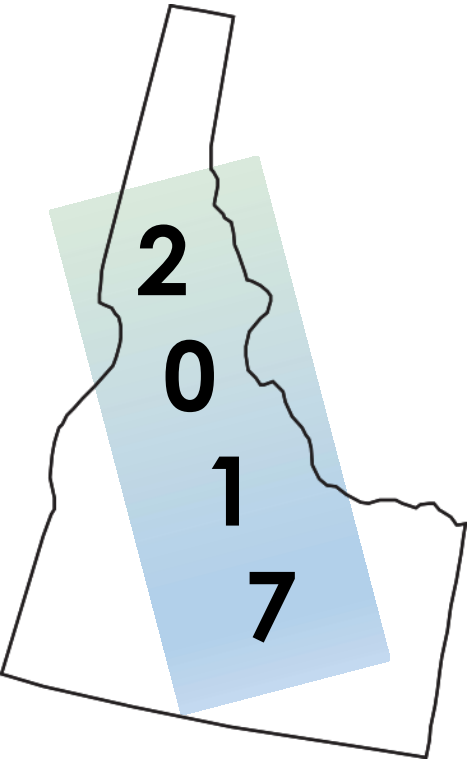




https://geonet.esri.com/groups/idaho-gis

GIS Accomplishments

What's going on in Idaho?



IDWR Update

Dan Narsavage

20 April 2017

IDAHO Department of Water Resources

IDWR's Online Mapping Tools

Mapping Tools

- General Map
- Dams of Idaho Map
- Evapotranspiration Viewer
- Flood Hazard Map
- Geothermal Resources Map
- Ground Water Level Map
- Ground Water Quality Map
- Irrigation Organizations Map
- Irrigation Rights Finder
- Recreational Mining Map
- Water Measurement Map
- Water Rights Accounting Map
- Well Drillers' Locator Map
- Wild and Scenic Watersheds Map
- Create and Print a Map f… Water Right Applications
- ArcGIS Online Mapping Tools
- ••• see more maps

Maps and Applications

Administrative Areas

Dams of Idaho

Flood Hazard

Ground Water Levels

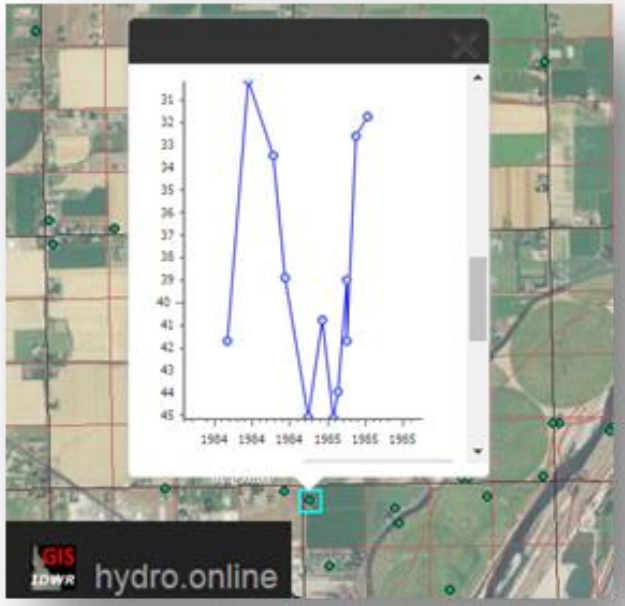
The Idaho Department of Water Resources serves the people of Idaho and protects their welfare by making sure water is conserved and available to sustain Idaho's economy, ecosystem and the resulting quality of life. IDWR provides a variety of services for the public, such as water rights research, historical record reproduction of water rights, driller's reports, and dam safety inspections.

To download the data displayed on this website, please visit our Open Data site.

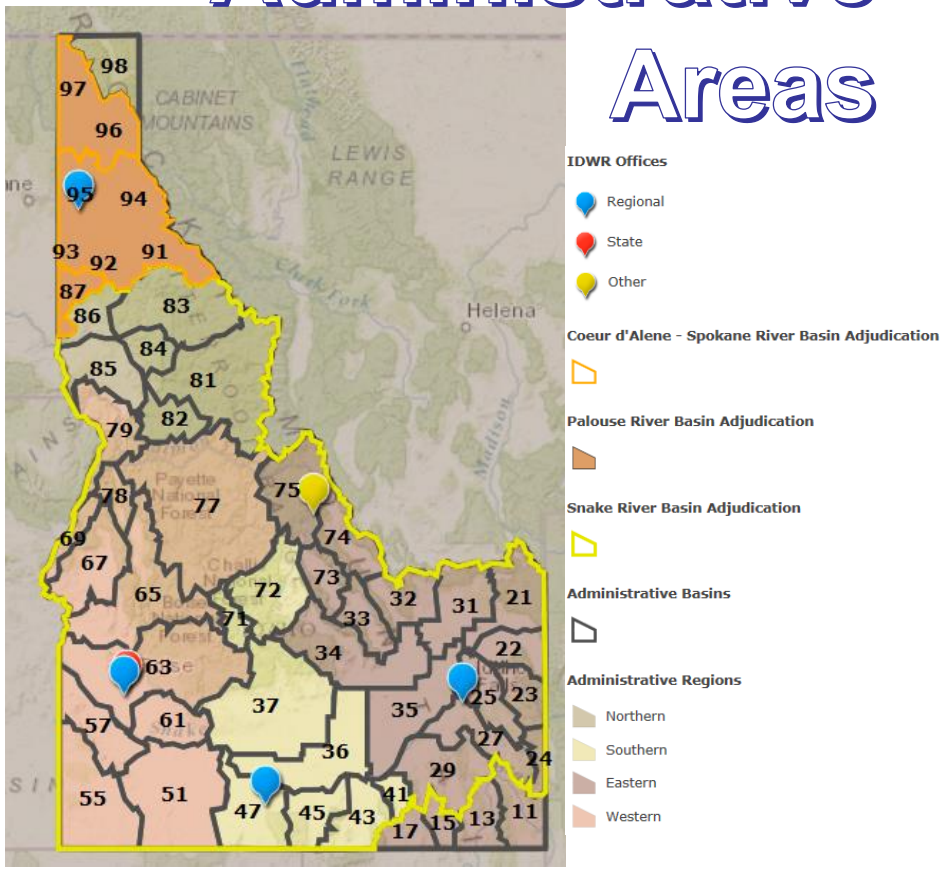
Esri.com | ArcGIS Marketplace | Help | Terms of Use | Privacy | Contact Esri | Contact Us | Report Abuse

IDWR's Online Mapping Tools

Groundwater levels



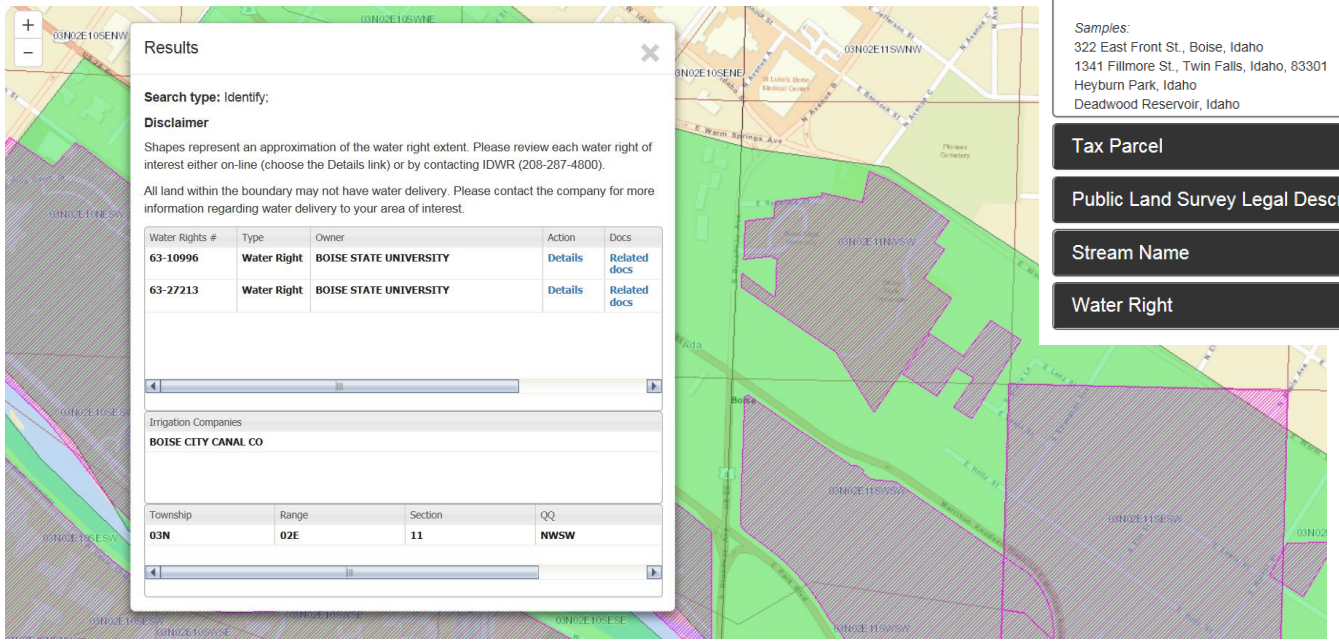
Administrative Areas

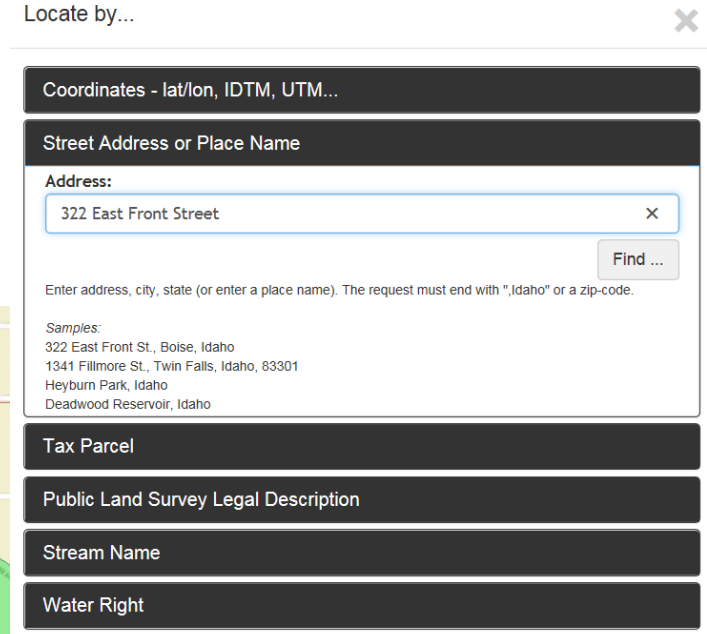


IDAHO Department of Water Resources

IDWR's Online Mapping Tools

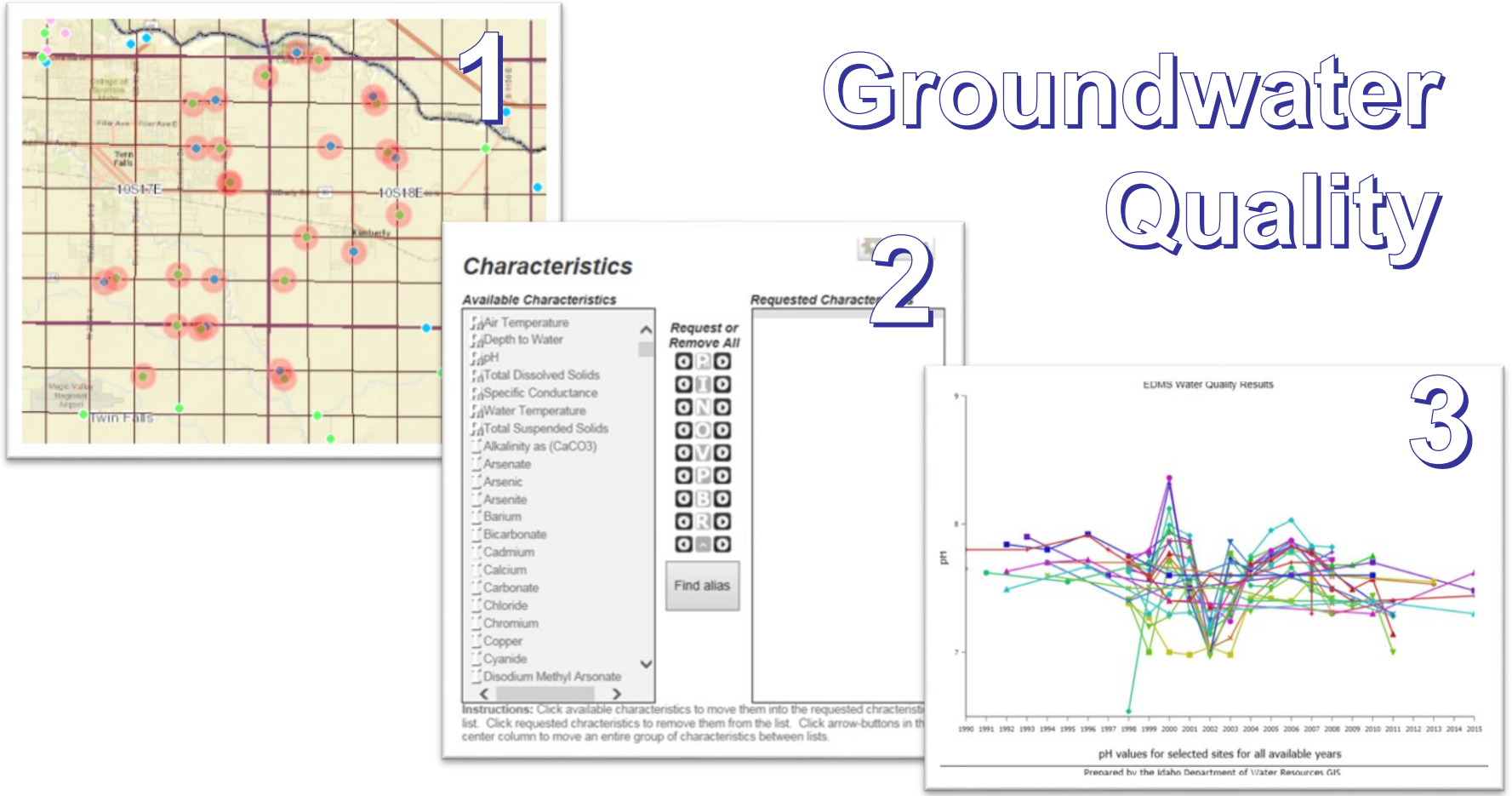
Irrigation Rights Finder





IDWR's Online Mapping Tools

Groundwater Quality



Evapotranspiration Mapping

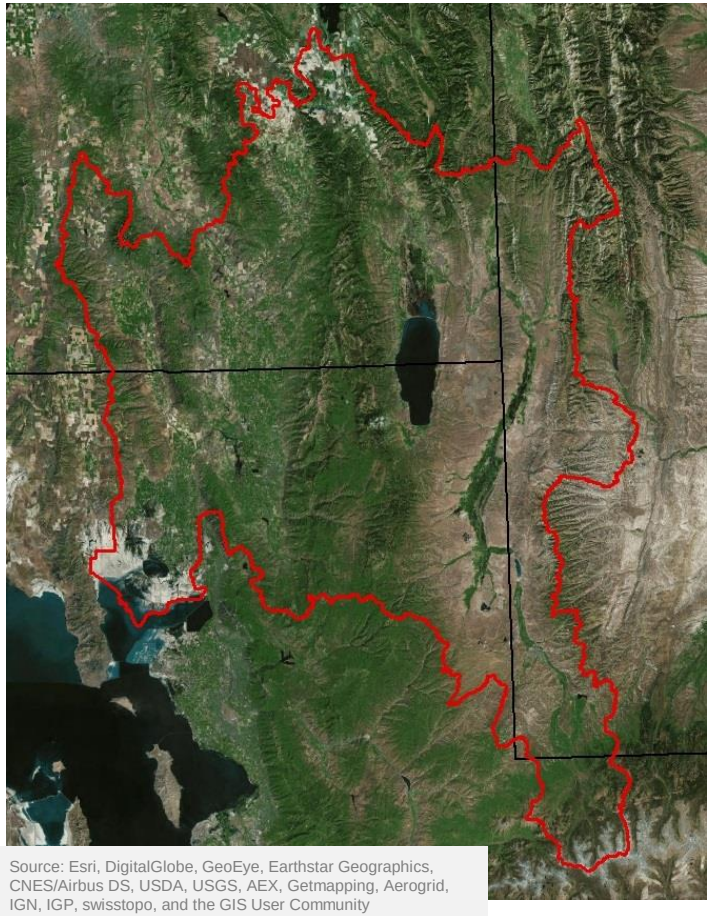
Three-year effort led by NASA & DRI

Develop operational ET Mapping tools and 10 years of ET data

Satellite-based: Landsat and Sentinel 2

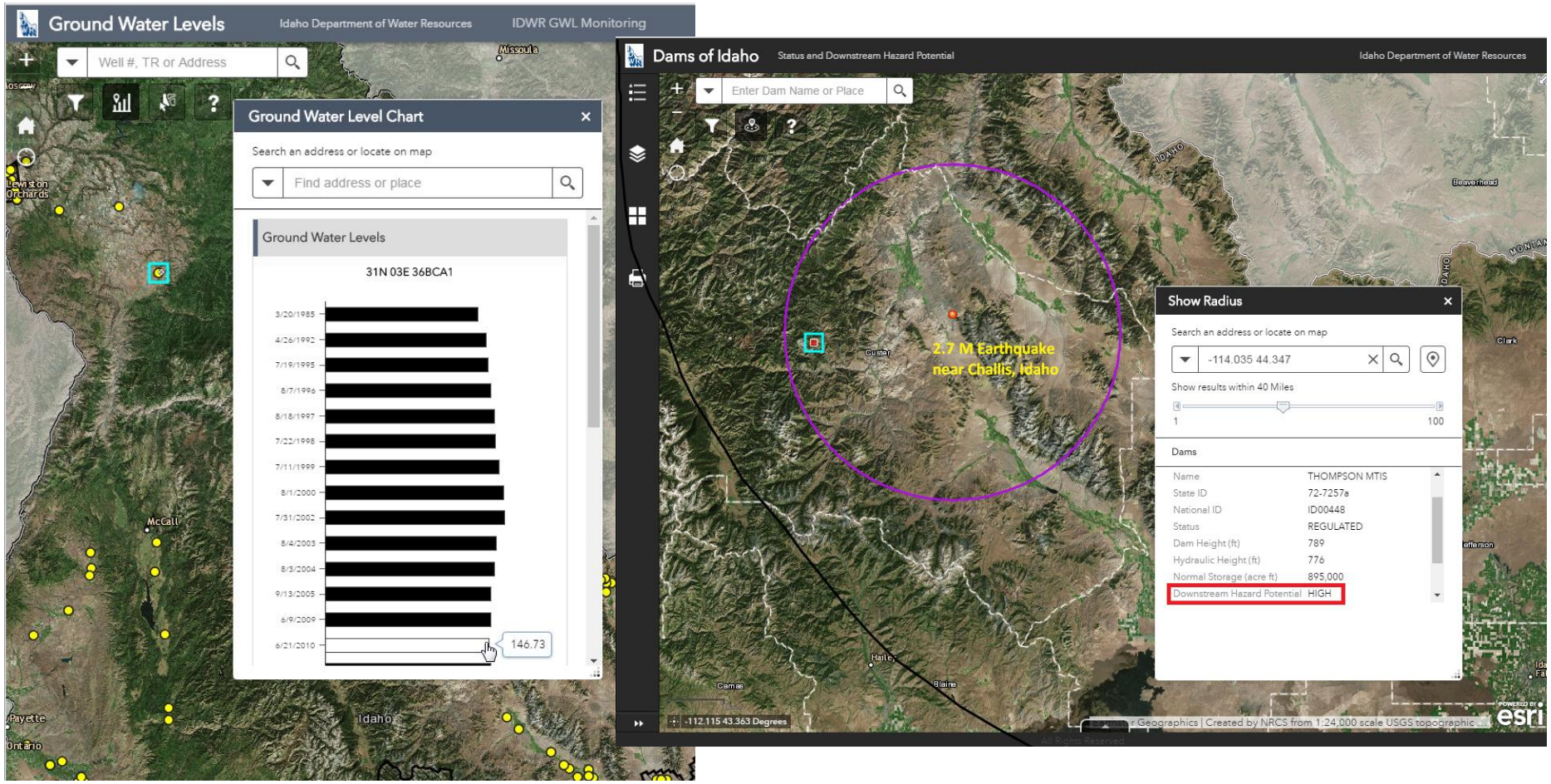
Compile ET stats in geodatabase by field, irrigation entities, water rights, and model cells

Bear River Basin

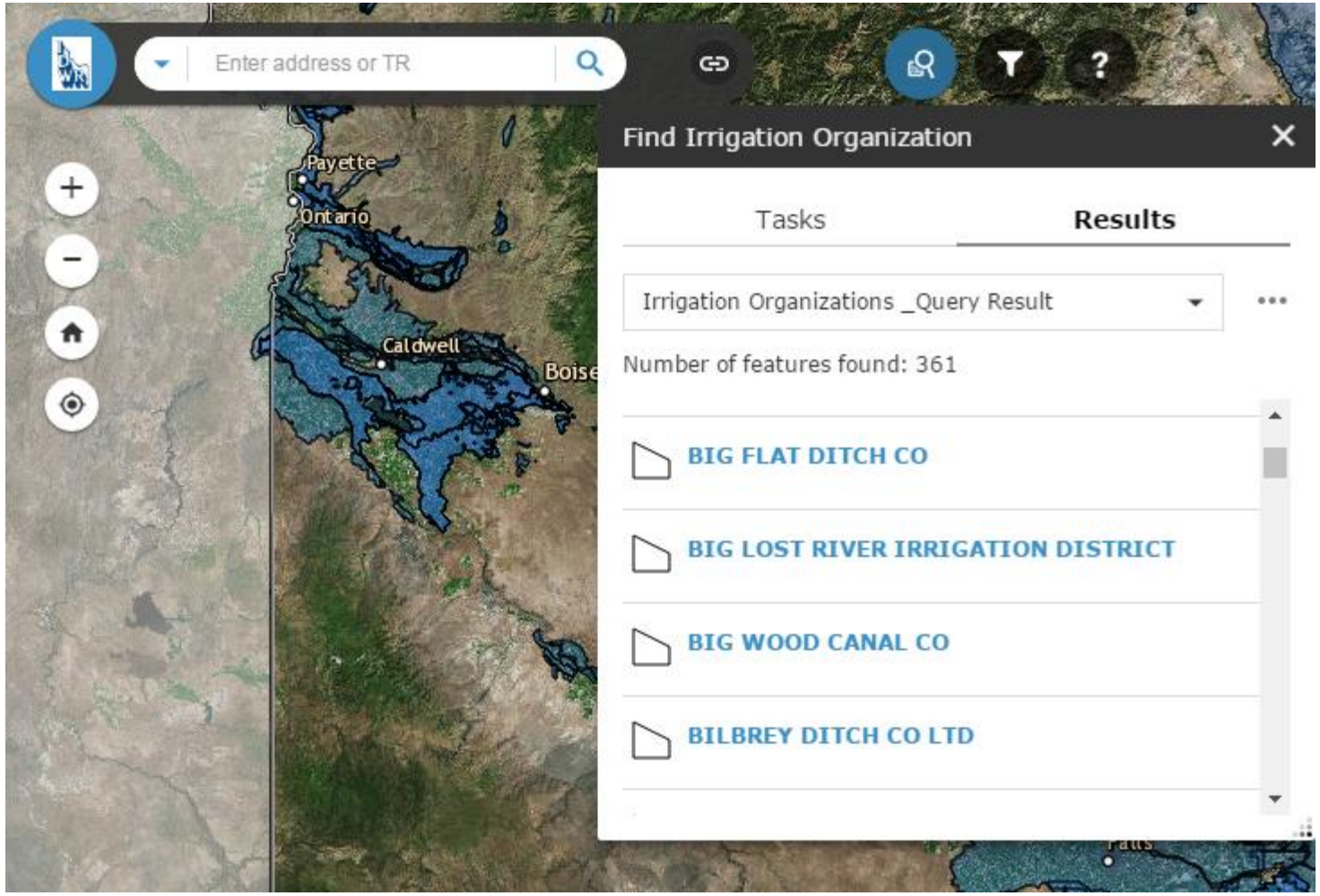


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

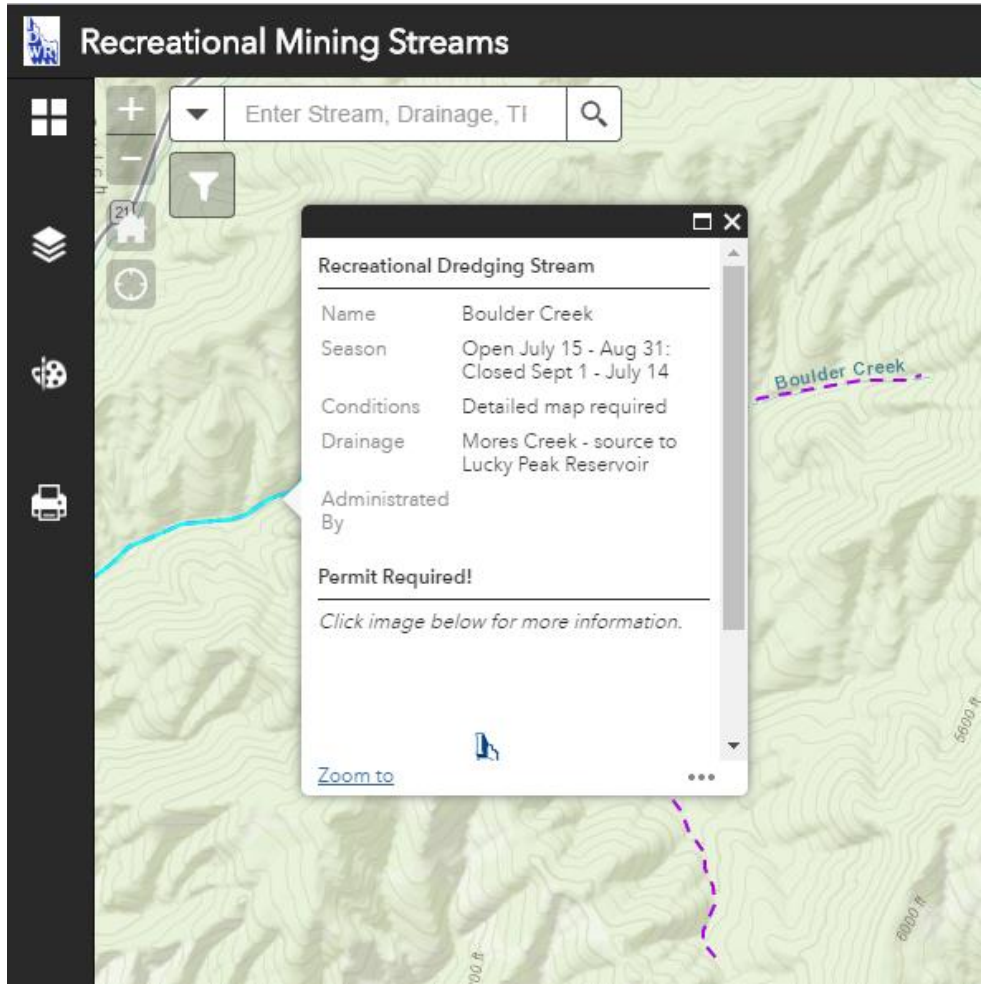
ArcGIS Online

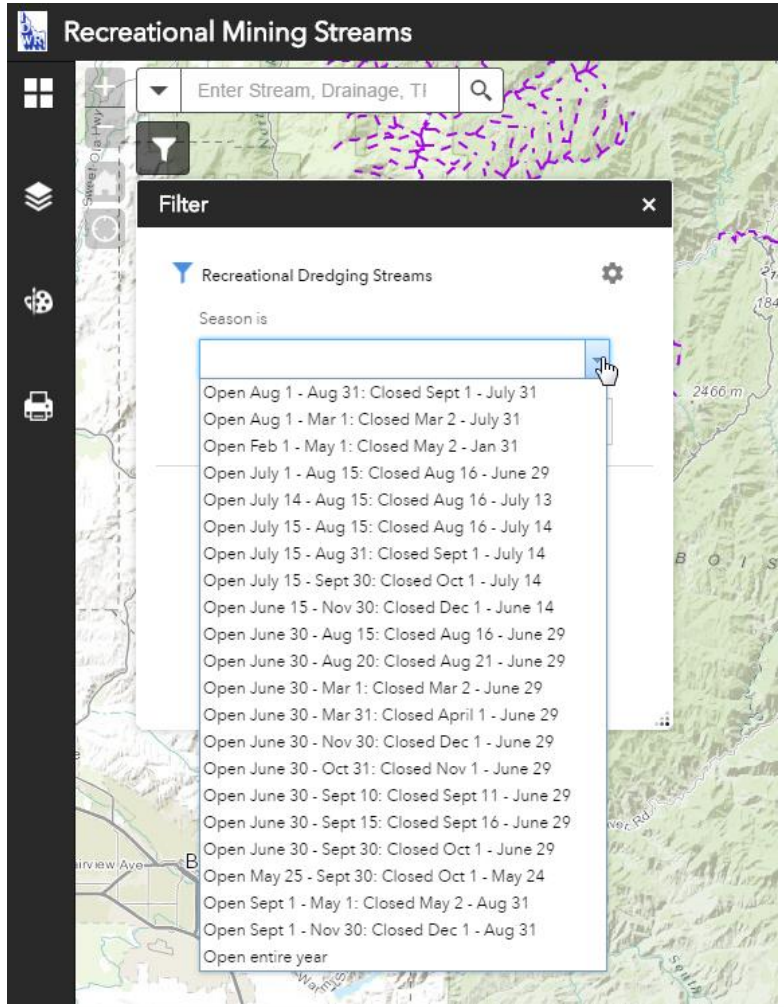


ArcGIS Online



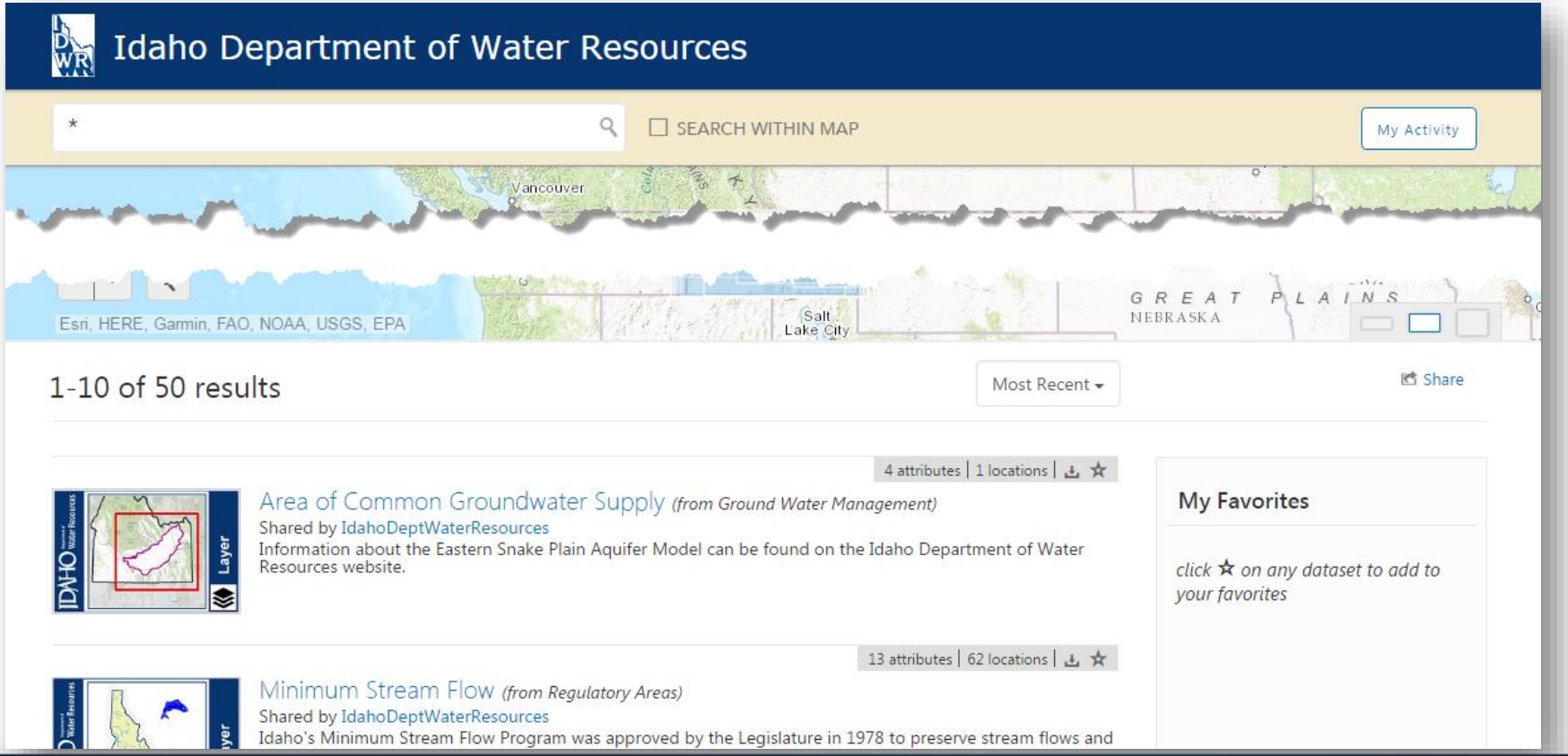
ArcGIS Online



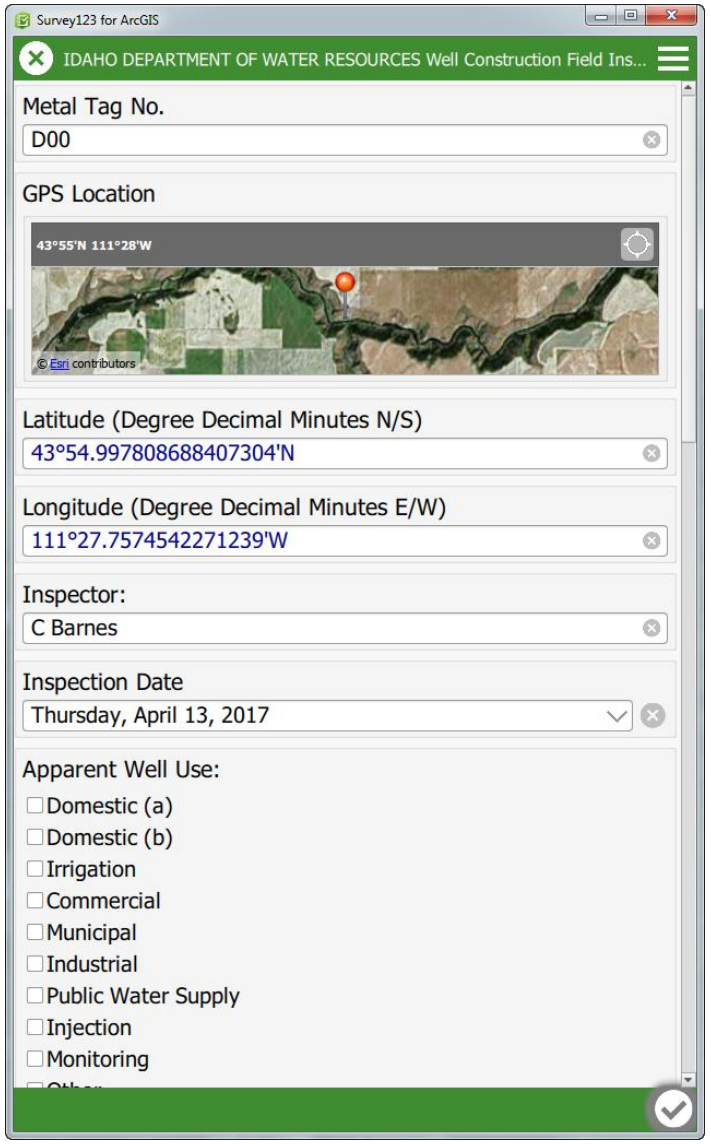


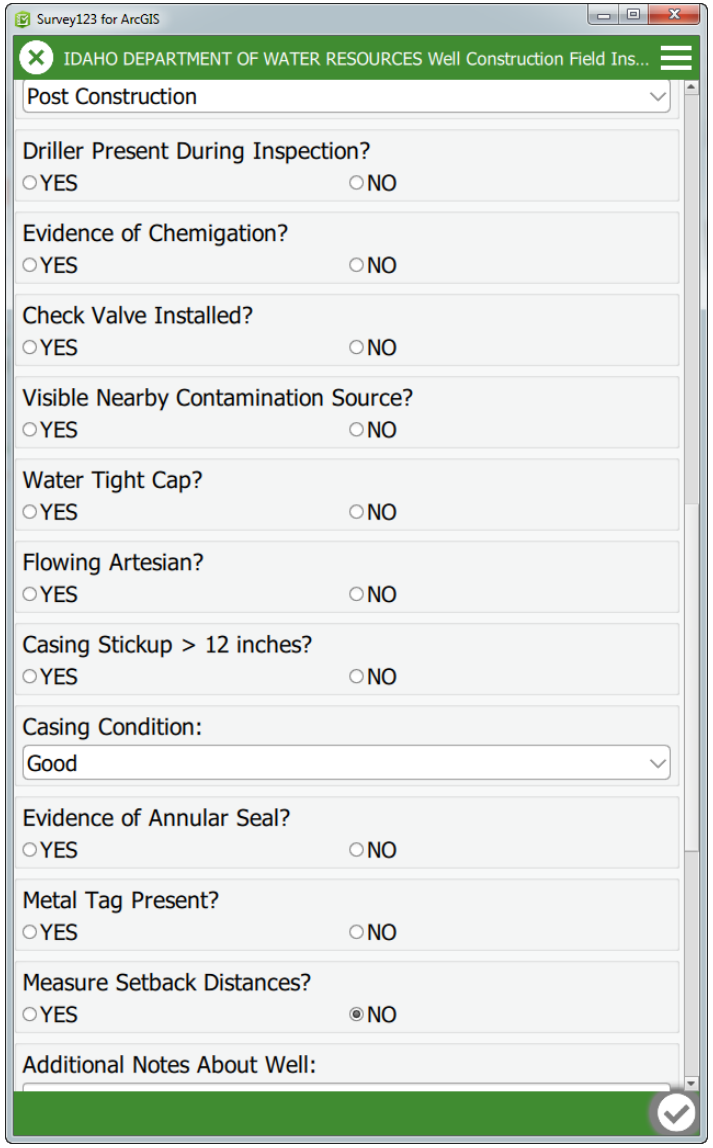
Open Data Portal

- http://data-idwr.opendata.arcgis.com/datasets



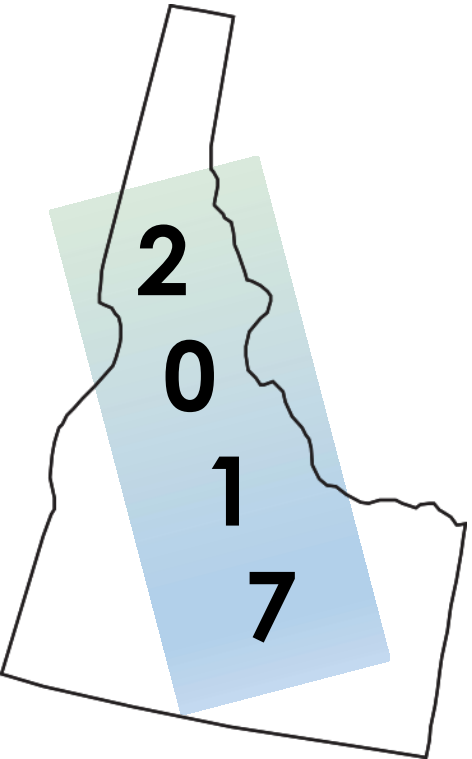
Survey 123


Survey123 for ArcGIS
IDAHO DEPARTMENT OF WATER RESOURCES Well Construction Field Ins...
Metal Tag No.
D00
GPS Location
43°55'N 111°28'W
© Esri contributors
Latitude (Degree Decimal Minutes N/S)
43°54.997808688407304'N
Longitude (Degree Decimal Minutes E/W)
111°27.7574542271239'W
Inspector:
C Barnes
Inspection Date
Thursday, April 13, 2017
Apparent Well Use:
Domestic (a)
Domestic (b)
Irrigation
Commercial
Municipal
Industrial
Public Water Supply
Injection
Monitoring


Survey123 for ArcGIS
IDAHO DEPARTMENT OF WATER RESOURCES Well Construction Field Ins...
Post Construction
Driller Present During Inspection?
YES NO
Evidence of Chemigation?
YES NO
Check Valve Installed?
YES NO
Visible Nearby Contamination Source?
YES NO
Water Tight Cap?
YES NO
Flowing Artesian?
YES NO
Casing Stickup > 12 inches?
YES NO
Casing Condition:
Good
Evidence of Annular Seal?
YES NO
Metal Tag Present?
YES NO
Measure Setback Distances?
YES NO
Additional Notes About Well:

State GIS Strategic Plan Update

Pam Bond



2016 Idaho SDI Strategic Plan Update

What is SDI?

The Idaho Spatial Data Infrastructure (SDI) is the technology, policies, standards, human resources, and related activities necessary to acquire, process, distribute, use, maintain, and preserve spatial data for the use of the Citizens of the State of Idaho.

In a nutshell….

ALL THINGS GIS

Background

- The initial version released 2009
  - 71 page strategic plan, 97 page business plan
  - Created with the help of a consulting firm
  - Lots of good information about all things GIS in Idaho

- The proposed update
  - 14 page strategic plan, no business plan
  - Consider it to be a living document
  - 3-5 years before next major revision

- Both plans
  - Conducted statewide GIS user surveys

Guiding Principles

6 of 10 still considered important/relevant:

- Seek to clearly represent the interests of my organization **with other** governing bodies and organizations (97%).
- **Act collaboratively** on programs or activities that can be better accomplished through collaboration or team work (95%)
- Seek solutions to issues of **common concern** (93%)
- **Inclusive** and open communication throughout Idaho's GIS community (93%).
- Seek resources from county, regional, state and federal agencies that will benefit Idaho's GIS **Community** (93%).
- Optimize efficiency in all aspects of GIS data development and use (92%).

"Demonstrate the importance of professional communities working collectively toward a better geographic information system for Idaho."

GOAL #1

- Create/support a robust geospatial data clearinghouse for sharing current and historical TIM Framework and other authoritative data layers.
  - *Objective*: Seek and secure the funding and staffing needed for an official TIM geospatial data clearinghouse.
  - *Strategy*: Have a designated clearinghouse administrator who can reach out and support TIM/authoritative data stewards, review datasets and documentation and help keep them current, and maintain the clearinghouse website; acquire and maintain dedicated funding for this position.

GOAL #2

- Provide best available statewide TIM Framework data layers.
  - *Objective*: Increase the number of officially recognized TIM Framework data layers and create a recognizable TIM “brand”.
  - *Strategy*: Create an inventory of Framework data layers currently available from metadata; reinvigorate the Framework Leadership Team; start with the top 10 (as defined by current survey results) and work with the associated agencies/TWGS to get the data layers nominated – host TIM nomination workshop and TIM metadata workshop; host the Framework data layers in the geospatial data clearinghouse and brand as TIM.

GOAL #3

- Improve geospatial data quality.
  - *Objective*: Improve the quality and currentness of publically available GIS data through education and have data stewards publish their geospatial data as Open Geospatial Consortium (OGC) services (WMS, WFS, WCS, etc.).
  - *Strategy*: Increase education on and encouragement to follow State GIS policies and standards; education on proper metadata; education on transition to web services.

GOAL #4

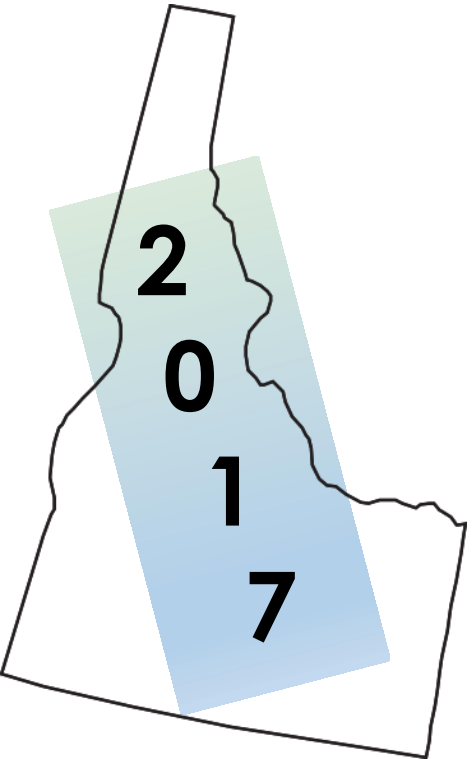
- Improve delivery and accessibility of GIS services and information.
  - *Objective*: Increase stakeholder exposure to geospatial data and leverage the more user-friendly mapping applications to make geo-information more sharable and usable.
  - *Strategy*: Explore the use of data sharing applications such as Esri Open Data and data.gov; encourage not only GIS staff but others to use tools like Story Maps and Web Map Applications to relay geo-information to their customers and the public; encourage the use of mobile-friendly templates; funding for and encourage data stewards to use ArcGIS Server/shared State ArcGIS Server and enterprise ArcGIS Online accounts.

2016 GIS Strategic Plan Updates Summary

Goals	Objectives	Strategies	Lead	Status
GOAL 1: Create/support a robust geospatial data clearinghouse for sharing current and historical TIM Framework and other authoritative data layers.	Seek and secure the funding and staffing needed for an official TIM geospatial data clearinghouse.	Designated clearinghouse administrator to support TIM/authoritative data stewards (review and keep dataset current; maintain clearinghouse website.)	**Pam Bond/Bruce Godfrey**	
		Acquire and maintain dedicated funding for this position.	**Bill Farnsworth**	
GOAL 2: Provide best available statewide TIM Framework data layers.	Increase the number of officially recognized TIM Framework data layers and create a recognizable TIM "brand.	Create inventory of Framework data layers	**Bill Farnsworth/Pam Bond/Jerry Korol**	
		Reinvigorate Framework leadership team; Promote data layers nominations (TIM nominations workshops; TIM metadata workshops)	**Pam Bond/Keith Weber/Donna Phillips**	
		Host Framework data layers in geospatial clearinghouse and brand as TIM	**Bruce Godfrey**	
GOAL 3: Improve geospatial data quality.	Improve quality/currentness of publicly available GIS data through education. Have data stewards publish their geospatial data as Open Geospatial Consortium (OGC) services.	Education/encouragement to follow State GIS policies and standards	**Bill Farnsworth**	
		Education on proper metadata	**Pam Bond/Wilma Robertson**	
		Education on transition to web services	**Keith Weber**	
GOAL 4: Improve delivery and accessibility of GIS services and information.	Increase stakeholder exposure to geospatial data and leverage the more user-friendly mapping applications to make geo-information more sharable and usable.	Explore use of data sharing applications	**ALL**	
		Education/encouragement to use StoryMap/web application-like tools to relay geo-information to customers and public	**ALL**	
		Education/encouragement to use of mobile-friendly mapping templates	**ALL**	
		Funding for/encourage data stewards to use ArcGIS Server/shared ArcGIS Server and enterprise ArcGIS Online Account	**ALL**	

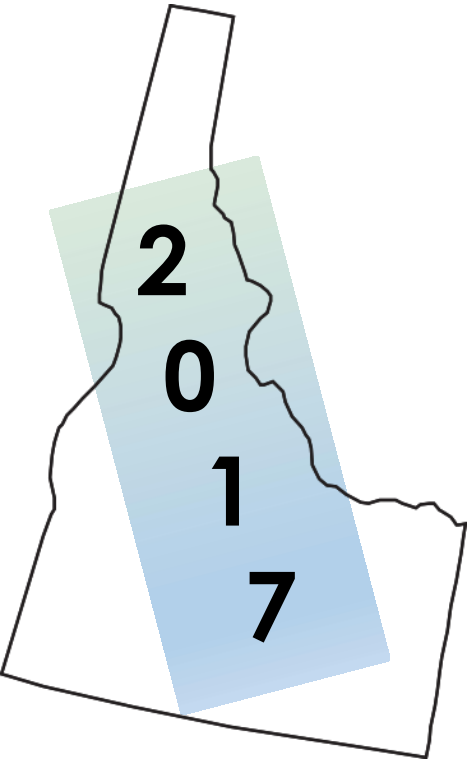
✔ Completed ● In Progress

TWG Updates



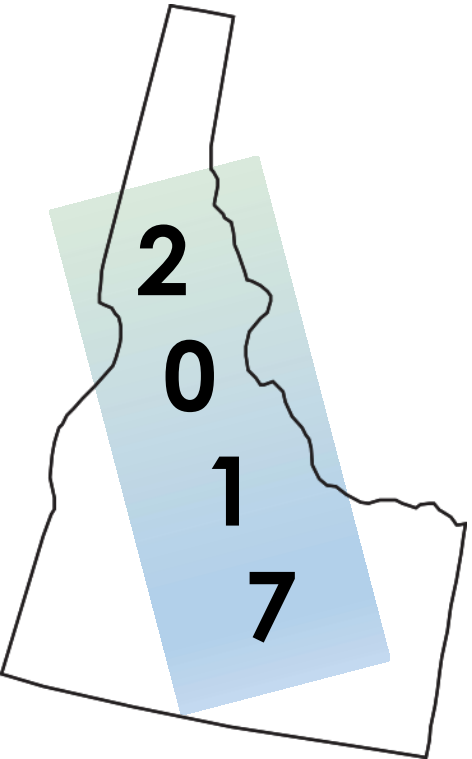
Geodetic Control Technical Working Group (GC-TWG)

Chair: Keith T Weber, GISP



Meetings

- GC-TWG meetings bi-monthly
- Primary/focus topics include
  - Multi-state control point database (MCPD)
  - Real-time network differential correction (TURN and SmartNet)

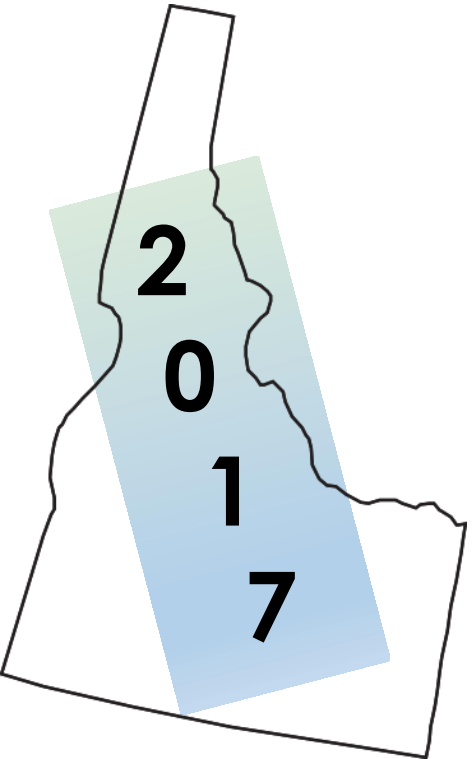


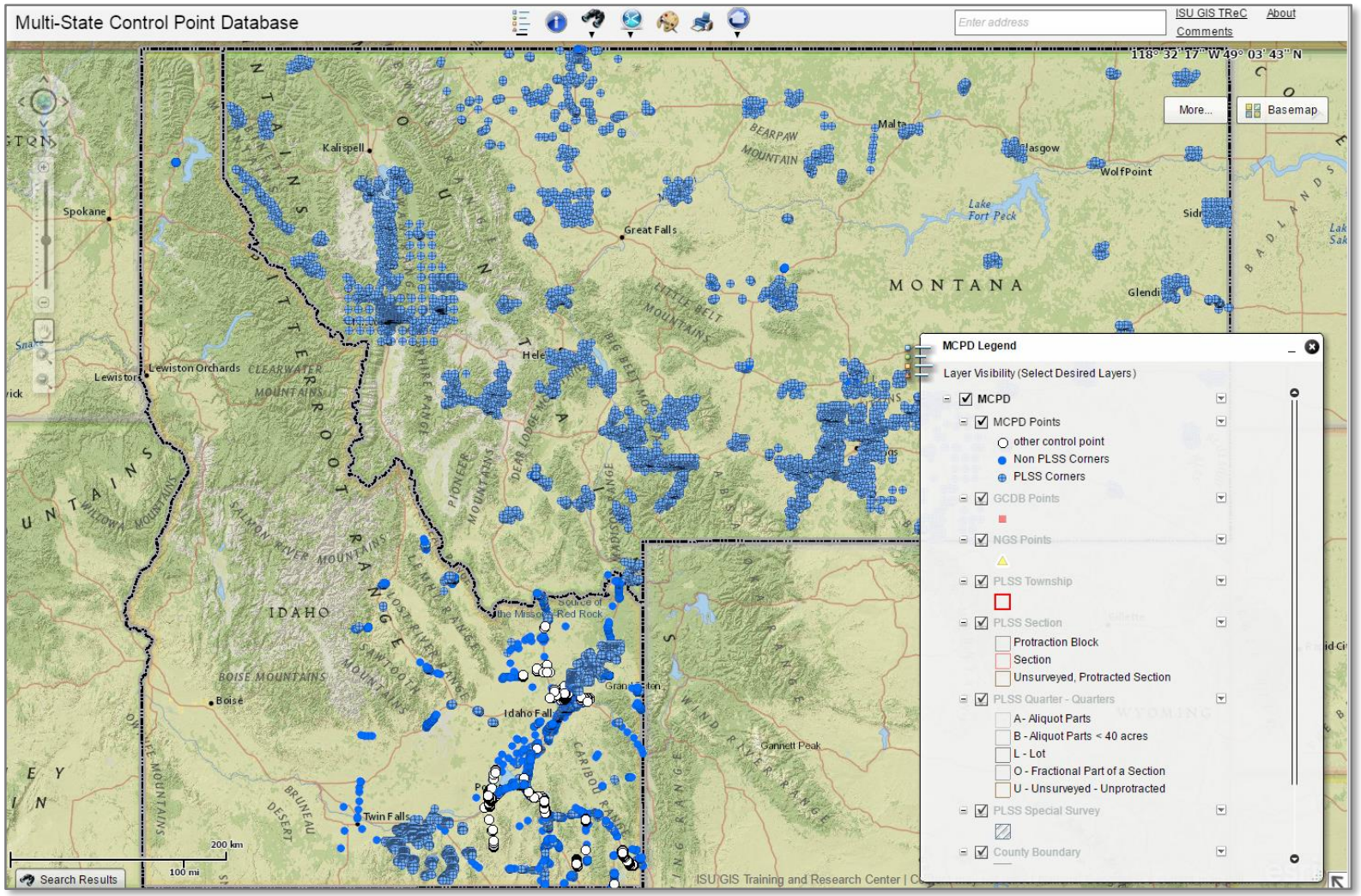
MCPD

13,430 points total

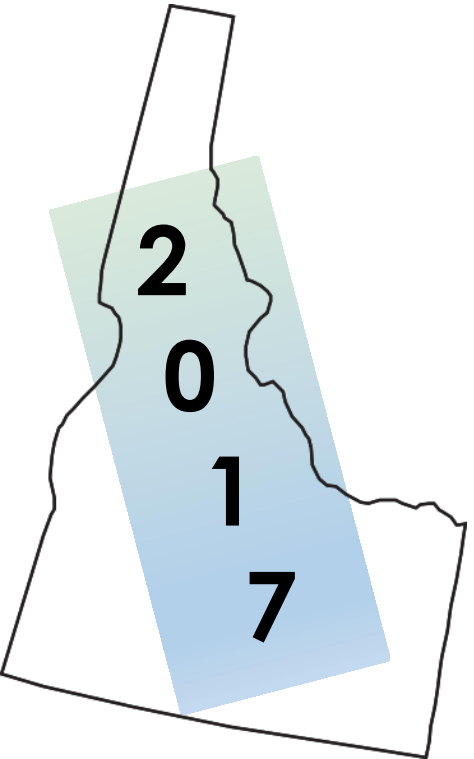
Idaho = 8,511 points

Montana = 4,919 points





RTN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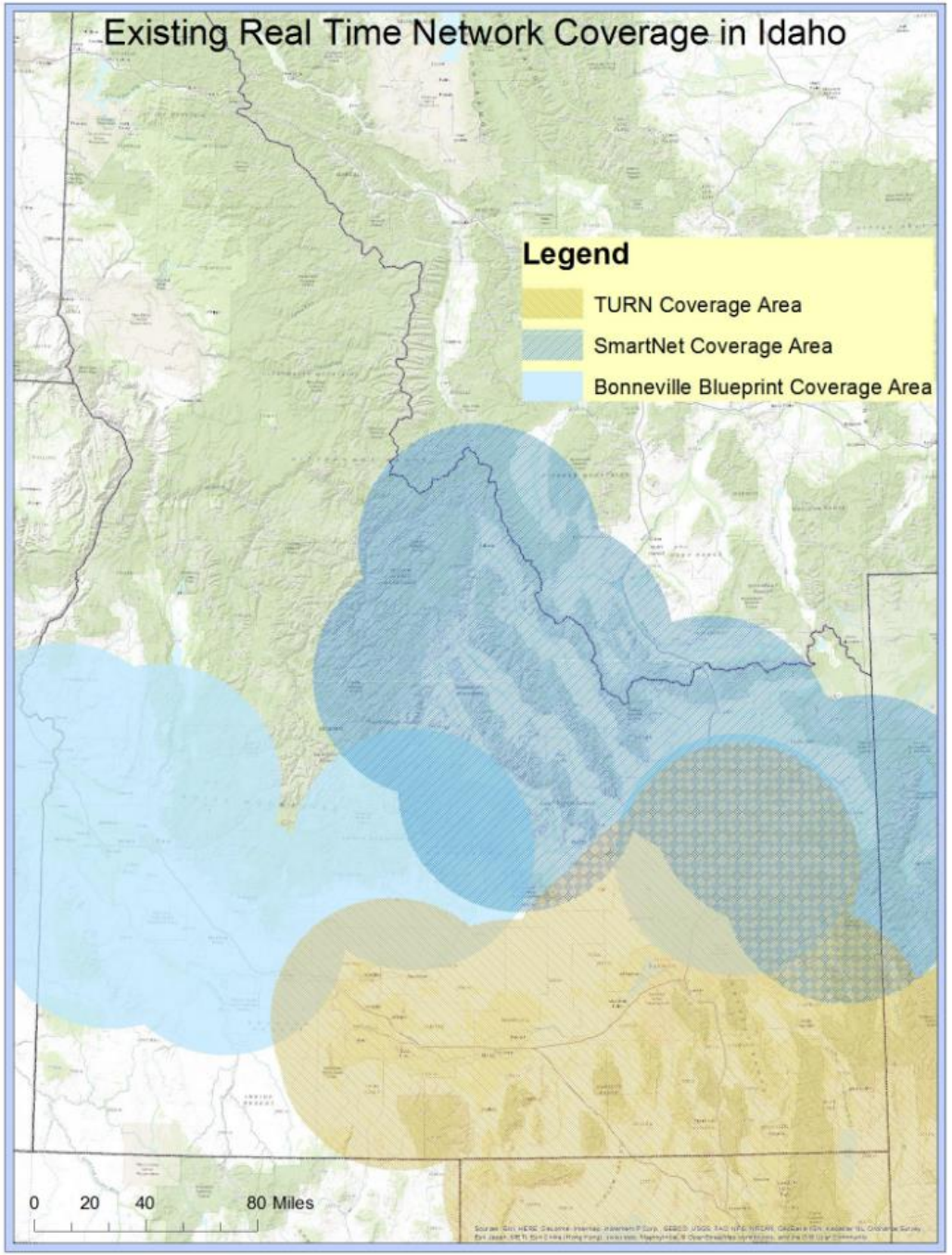
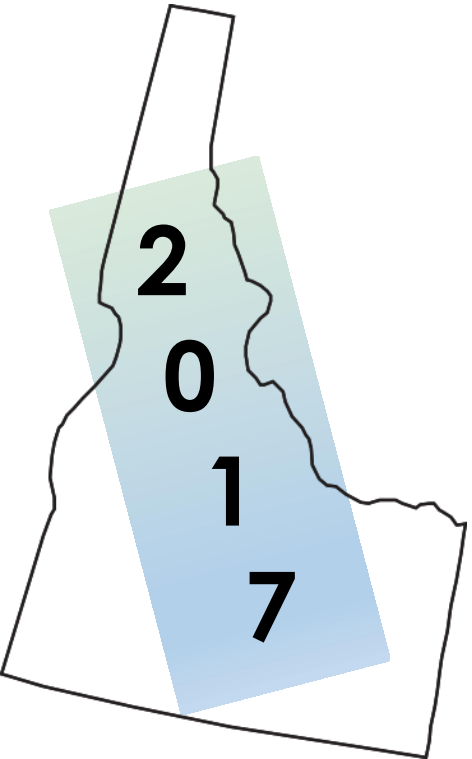
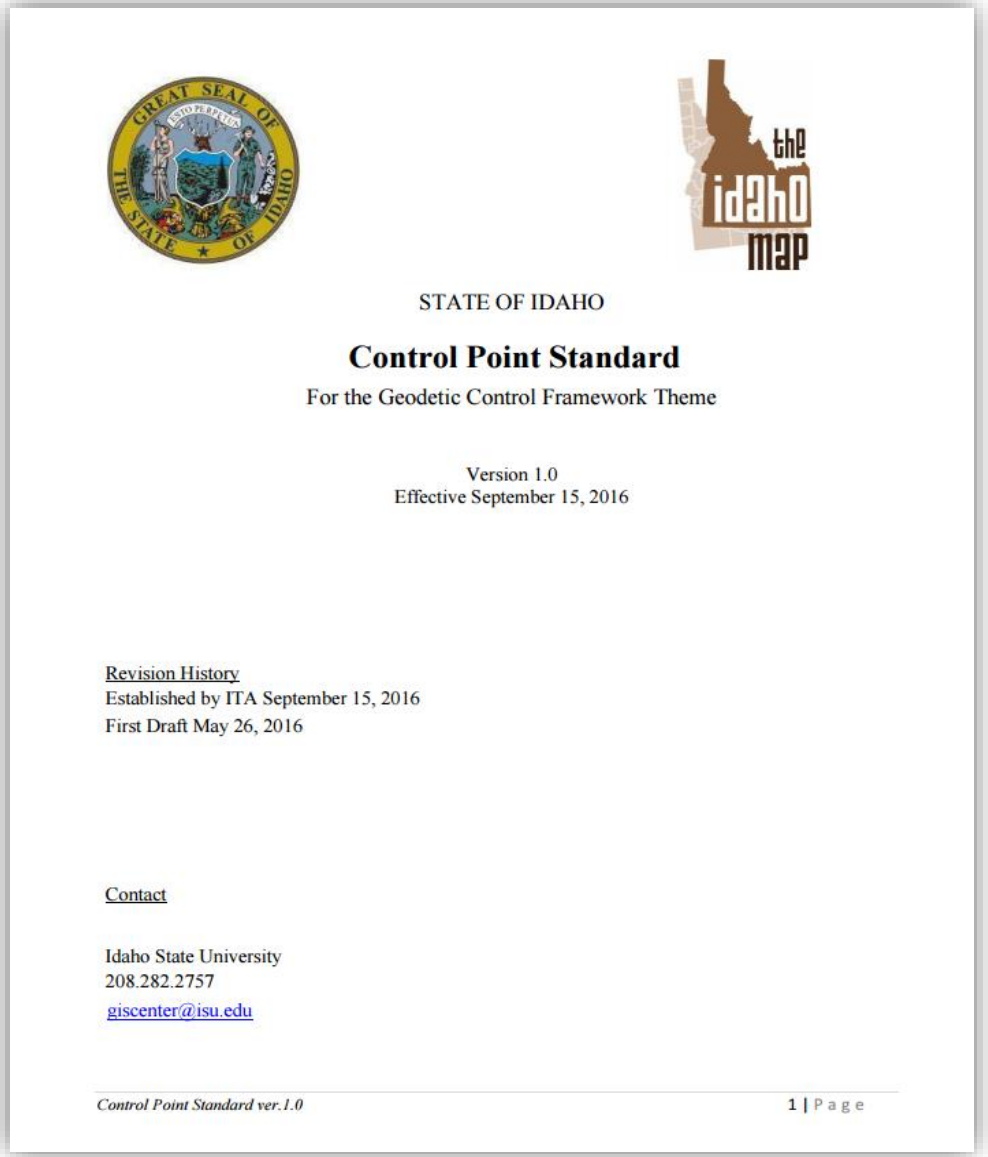

Existing Real Time Network Coverage in Idaho
Legend
TURN Coverage Area
SmartNet Coverage Area
Bonneville Blueprint Coverage Area
0
20
40
80 Miles

Control Point Standard





STATE OF IDAHO

Control Point Standard

For the Geodetic Control Framework Theme

Version 1.0
Effective September 15, 2016

Revision History
Established by ITA September 15, 2016
First Draft May 26, 2016

Contact

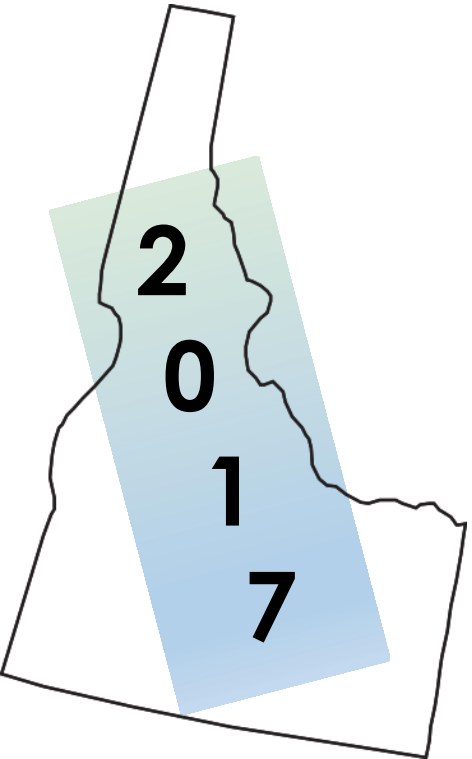
Idaho State University
208.282.2757
giscenter@isu.edu

Control Point Standard ver.1.0 1 | Page

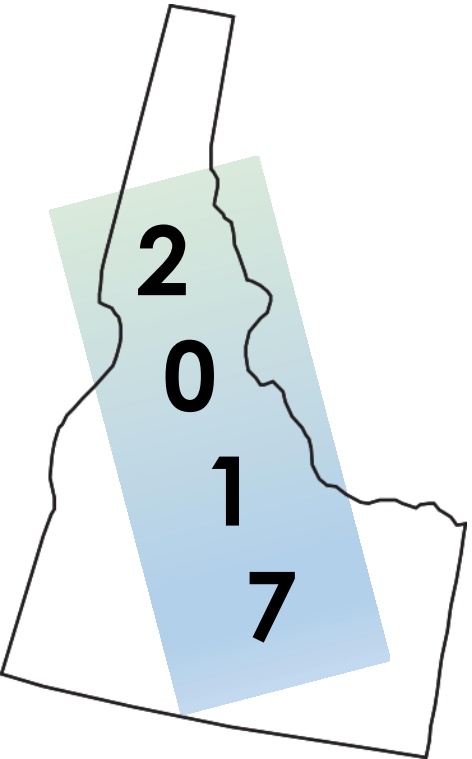
https://gis.idaho.gov/pdf/Framework/GeodeticControl/ControlPoint%20Standard_APPROVED.pdf

Future

- Guideline and best practices document to understand control point life cycle

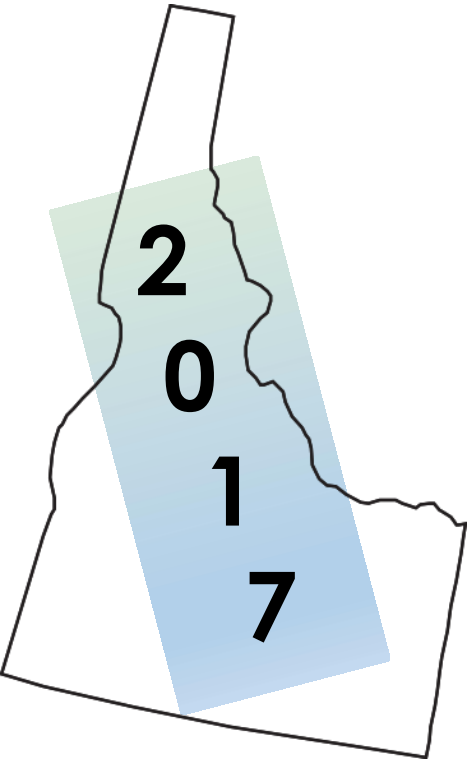


Questions?

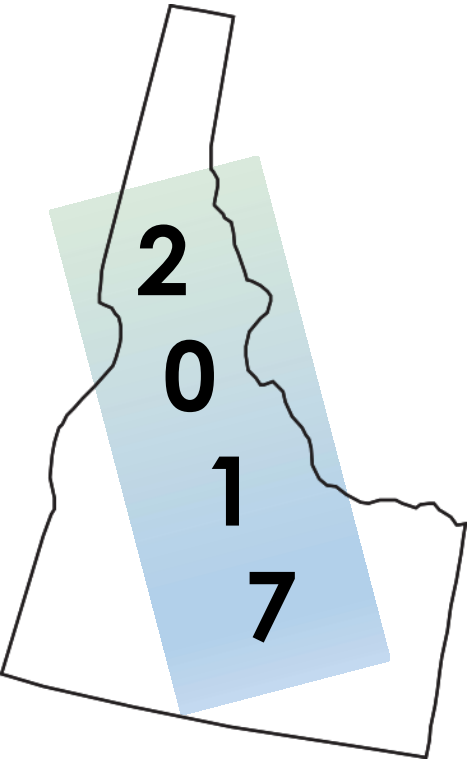


Public Safety Working Group

Chair: Bill Reynolds, Nez Perce County

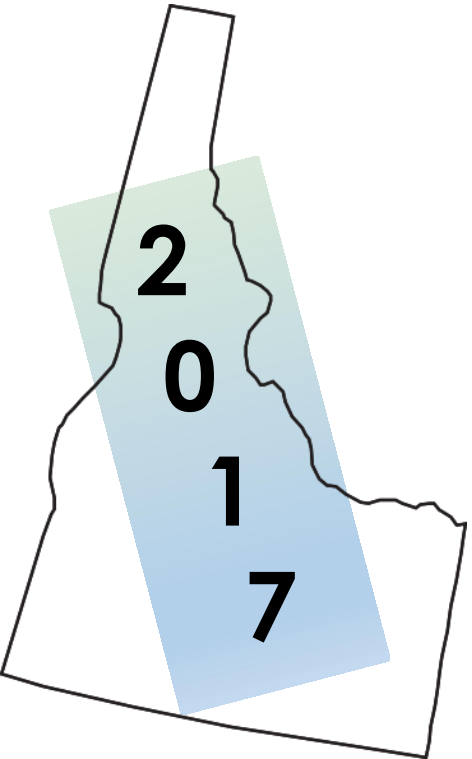


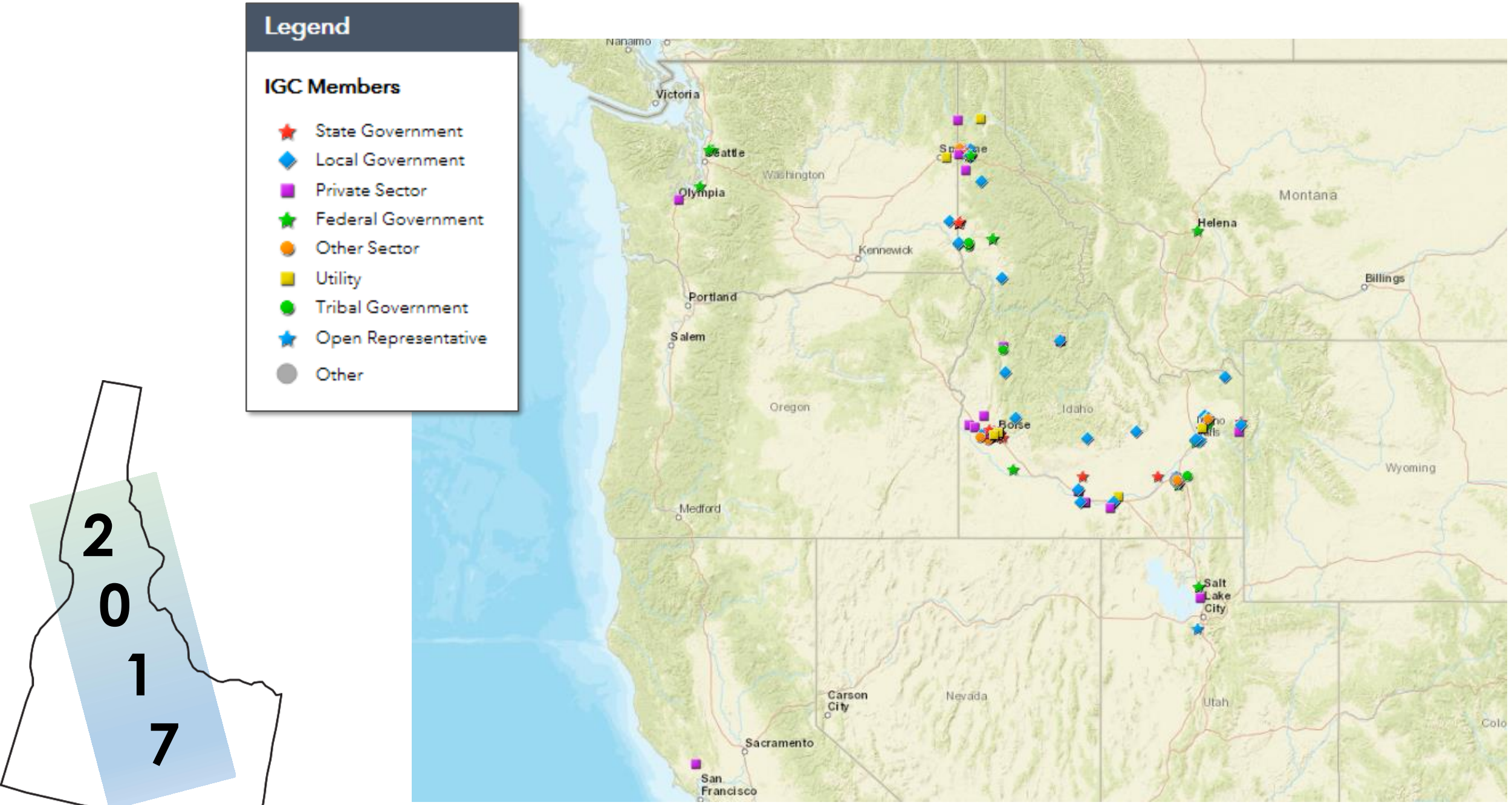
Other Business



Other Business

IGC Membership:
Ways to promote involvement

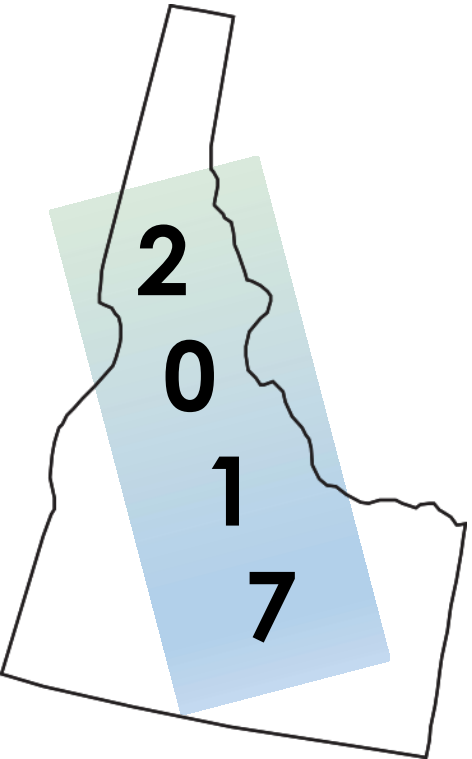



Legend
IGC Members
State Government
Local Government
Private Sector
Federal Government
Other Sector
Utility
Tribal Government
Open Representative
Other
2017
Nanaimo
Victoria
Seattle
Washington
Olympia
Kennewick
Portland
Salem
Oregon
Medford
Montana
Helena
Billings
Idaho
Boise
Wyoming
Salt Lake City
Utah
Nevada
Carson City
Sacramento
San Francisco

Other Business

Cybersecurity Roundtable

October 2017 | Boise Centre on the Grove



… The Roundtable will be held during the Northwest GIS User Group meeting in Boise, October 9-13, 2017